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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585,001	06/29/2006	Toshihiko Tsuji	128591	4937
25944 OLIFF & BERI	7590 08/06/200 RIDGE, PLC	EXAMINER		
P.O. BOX 3208	350	SMYTH, ANDREW P		
ALEXANDRIA, VA 22320-4850			ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/585,001	TSUJI ET AL.			
Office Action Summary	Examiner	Art Unit			
	ANDREW SMYTH	2881			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>05/04</u> 2a) This action is FINAL . 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-39 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) Claim(s) 7-15,17-25,29 and 30 is/are allowed. 6) Claim(s) 1-3,5,16,26-28,31,33-36,38 and 39 is/ 7) Claim(s) 4,6,32 and 37 is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the construction and request that any objection and r	vn from consideration. vare rejected. r election requirement. r. epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is objected to by the legan to the drawing(s) is objected to by the legan to the drawing(s) is objected to by the legan to the drawing(s) is objected to by the legan to the drawing(s) is objected to by the legan to the legan	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 06/29/2006, 07/31/2007.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te			

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DETAILED ACTION

Response to Request for Continued Examination (RCE)

- 1. Claims 1-25 have been amended.
- 2. Claims 26-39 are new claims.
- 3. Claims 7-15 and 17-25 were previously allowed in Final Rejection of 11/04/2008.

Previously allowed claims 7-15 and 17-25 were amended to replace the word "said" with the word "the". The subject matter of the claims remains unchanged.

Response to Arguments

1. Applicant's arguments with respect to claim1-6 and 16 have been considered but are most in view of the new ground(s) of rejection.

Claim Objections

1. Claims 4, 6, 32, and 37 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Concerning claims 4, 6, 32, and 37; the search failed to find the vibration isolation device for supporting the optical member and preventing vibrations from traveling through the device along the optical axis and also a control device for moving the vibration isolation device in the optical axis direction if a detector is triggered.

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Allowable Subject Matter

- 1. Claims 29-30 are allowed.
- 2. Dependent claims 29-30 are allowable due to dependency upon previously allowed independent claim 7.

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 5, 33, 35 recites the limitation "a second vibration isolation device" or "the vibration isolation device" in claim 1. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.
- 2. Claims 1-3, 16, 26-28, 31, 34, 36, and 38-39 are rejected under 35 U.S.C. 102(e) as being anticipated by Kayama et al. (US 2007/0081133).

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Regarding claim 1, Kayama et al. teaches an exposure apparatus that has an optical member/ projection unit (figure 1, PU) for transferring a pattern from a mask (figure 1, R) onto a substrate (W); a movable member/XY stage (31) below the optical member/ projection unit, which supports the substrate and moves perpendicularly to the optical axis of the optical member/ projection unit; a detector (18, 17), on a periphery of the optical member/ projection unit, for detecting the position of the movable member/XY stage or of the substrate along the optical axis direction; and a device/controller (19, 20) for receiving position information from the detector and controlling the movement of the movable member/XY stage in a direction perpendicular

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Regarding claim 2, Kayama et al. teaches an elevating device/wafer stage drive (24) for moving the movable member/XY stage in the optical axis direction [0159], wherein the control device (20, 19) controls the elevating device/wafer stage drive based on measurements of the detector to move the movable member/XY stage away from the optical member/ projection unit along the optical axis direction [0050; 0149; 0159].

to the optical axis of the optical member/ projection unit [0057; 0077, 0159].

Regarding claim 3, Kayama et al. teaches that the detector is positioned in multiple positions (18, 17, 15, 16), at greater distances from the optical member/ projection unit

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(PU), in directions perpendicular to the optical axis (AX), than the stopping distance of the movable member/XY stage .

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Regarding claim 26, Kayama et al. teaches that the exposure apparatus has a multiple detectors (18, 17, 16, 15), and, in response to detection results assigned to the multiple detectors, the controller instructs the movable member/XY stage to execute different movements [0057; 0077, 0159].

Regarding claim 27, Kayama et al. teaches that in response to the detected position of the movable member/XY stage (31) or of the substrate along the optical axis, the controller (20, 19, 24) instructs the movable member/XY stage to execute different movements [0057; 0077, 0159].

Regarding claim 28, Kayama et al. teaches that a measurement by the detector (17, 18, 20) reflects the movement status of the movable member/XY stage [0057; 0077, 0159].

Regarding claim 31, Kayama et al. teaches an exposure apparatus, in which the space between an optical member/ projection unit (figure 1; PU) which projects a pattern (R) onto object/wafer (W) placed on the image-plane side of the optical member/ projection unit is filled with a liquid [0027], and the pattern exposure is transferred through the liquid [0027]; wherein an opposing member/reticle stage (RST)

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, positioned apart from the object/wafer in the direction the optical axis of the optical member/ projection unit (AX, PU), a driving device/reticle stage drive (11) [0043, 0045] to drive the opposing member/reticle stage and a controller(20), when triggered, moves the object/wafer and the opposing member/reticle stage apart along the optical axis, wherein the opposing member/reticle stage is movable, relative to the optical member/ projection unit, in the optical axis direction [0043, 0045; 0149; 0159].

Regarding claim 34, Kayama et al. teaches that the object/wafer is movable [0043, 0045; 0149; 0159] perpendicular to the optical axis (24), and the controller (20), when triggered, moves the object/wafer and the opposing member/reticle stage apart along the optical axis direction [0159].

Regarding claim 36, Kayama et al. teaches that the object/wafer is a substrate (W) for exposure to a pattern (R) or a movable member/XY stage (31) for supporting the substrate, and movable with at least three degrees of freedom [0159].

Regarding claim 38, Kayama et al. teaches that the controller, when triggered by an earthquake, moves the object/wafer and the opposing member/reticle stage apart along the optical axis direction [0159].

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Regarding claims 16 and 39, Kayama et al. teaches a device manufacturing method, comprising a lithography process which uses an exposure apparatus (title, abstract).

Conclusion

1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Pertinent prior art is closely related art that individually or in combination could be considered grounds for rejection. See references cited for a listing of the pertinent prior art found and the prior art found.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrew Smyth whose telephone number is 571-270-1746. The examiner can normally be reached on 7:30AM - 5:00PM; Monday thru Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Kim can be reached on 571-272-2293. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/A. S./

Examiner, Art Unit 2881

/David A Vanore/

Primary Examiner, Art Unit 2881